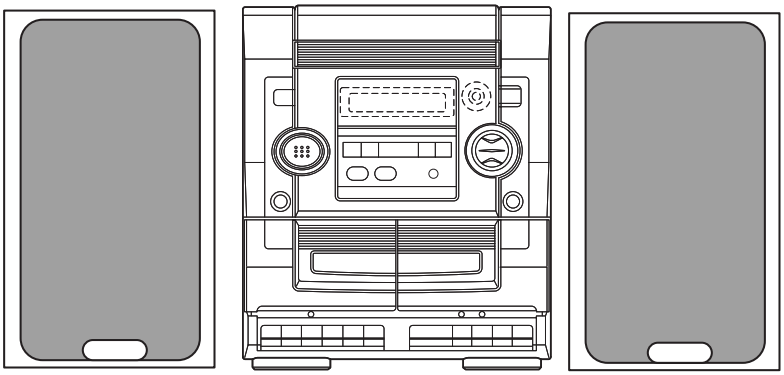
aiwa SERVICE

NSX-VC8 HC



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-2 PR1NC
BASIC CD MECHANISM : 3ZG-3 E8NC

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX–VC8	CX–NVC8	SX–NVC8	RC–AAS09

- This Service Manual contains information about the difference between NSX-VC8(HC) and NSX-VC8(HR). If requiring other information, see Service Manual of NSX-VC8(HR), (S/M Code No. 09-00A-437-8R1).

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S/M Code No. 09-00C-437-8S1

SUPPLEMENT DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output	Rated: 16 W + 16 W (6 ohms, T.H.D. 1 %, 1 kHz) Reference: 20 W + 20 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	0.1 % (10 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 600 mV MIC: 1 mV (10 kohms)
Outputs	SPEAKERS: 6 ohms or more PHONES: 32 ohms or more VIDEO OUT: 1 Vp-p (75 ohms)

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 8000 Hz
Recording system	AC bias
Heads	Deck 1: recording/playback x 1, erase x 1 Deck 2: playback x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
Video signal	NTSC / PAL color format (selectable)
VIdeo data	MPEG 1
Audio data	MPEG 1, Layer 2

<Speaker system SX–NVC8>

Speaker system	1 way, bass reflex
Speaker units	Full range: 100 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	196 x 301 x 198 mm
Weight	1.8 kg

<General>

Power requirements	120 V / 220 - 230 V/ 240 V AC (switchable), 50 Hz / 60 Hz
Power consumption	80 W
Dimensions (W x H x D)	260 x 302.5 x 266 mm
Weight	4.2 kg

• Specifications and external appearance are subject to change without notice.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-381-040		C-IC,LA9235M
	87-A21-557-010		C-IC,LC78635E
	8Z-ZJP-602-010		C-IC,UPD78016FGC-574-AB8
	87-017-760-080		IC,M51943BML
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-A21-513-040		C-IC,BA6998FP
	87-A21-419-040		C-IC,NJM14558MD-TE2
	87-A20-920-010		C-IC,CL680-D1
	8A-NHC-602-010		C-IC,M38B57MCH-E260FP
	87-070-083-010		IC,GP1U281X
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-962-040		C-IC,MSM54V16258B/BSL
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A21-443-040		C-IC,M62495AFP
	87-A20-918-040		C-IC,SM5878AM
	87-A20-974-040		C-IC,LC74781M-9017
	87-A21-695-010		IC,LA1845L
	87-070-127-110		IC,LC72131 D
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	87-A30-076-080		C-TR,2SC3052F
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-075-080		C-TR,2SA1235F
	87-A30-190-080		TR,CC5551
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-107-070		C-TR,CMBT5401
	87-A30-106-040		C-TR,CMBT5551
	87-A30-450-040		CHIP-TRANSISTER,DTA124XKA
	87-A30-432-040		CHIP-TR,DTC124XKA
	87-A30-104-080		C-TR,RT1N 441C
	87-A30-520-080		TR,2SC5342Y
	87-A30-090-080		FET,2SK2541
	87-A30-091-080		FET,2SJ460
	87-A30-062-080		C-TR,KRC104S
	87-A30-318-080		TR,CSA952K
	87-A30-492-080		TR,2SC5343G
	87-A30-234-080		TR,CSC4115BC
	89-327-125-080		CHIP TR,2SC2712GR
	87-A30-448-040		C-TR,DTA123JKA
	87-026-470-080		C-TR,HN1C03F (0.3W)
	89-111-625-080		C-TR,2SA1162GR (0.15W)
	87-A30-521-080		C-TR,2SC5345S(O)
	87-A30-489-080		C-TR,KRA107S
	89-503-602-080		C-FET,2SK360E
	89-327-143-080		TR,2SC2714O (0.1W)
DIODE			
	87-A40-393-090		DIODE,1N5402GW(F20)
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-777-080		ZENER,UZ30BSB
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-017-024-040		C-DIODE,DA204K
	87-A40-749-080		ZENER,UZ5.6BSB
	87-020-027-080		CHIP-DIODE 1SS184
	87-A40-739-080		ZENER,UZ2.7BSA
	87-A40-751-080		ZENER,UZ6.2BSB
	87-A40-748-080		ZENER,UZ5.6BSA
	87-A40-760-080		ZENER,UZ9.1BSA

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C9	87-010-759-080		C-CAP,U, 0.1-25F
C10	87-010-759-080		C-CAP,U, 0.1-25F
C11	87-010-759-080		C-CAP,U, 0.1-25F
C12	87-010-759-080		C-CAP,U, 0.1-25F
C21	87-A10-520-000		CAP,E 3300-35 M SMG
C22	87-016-051-000		CAP,E 2200-35 M SMG
C25	87-010-406-080		CAP, ELECT 22-50
C26	87-010-406-080		CAP, ELECT 22-50
C31	87-010-759-080		C-CAP,U, 0.1-25F
C32	87-012-286-080		CAP, U 0.01-25
C34	87-010-247-080		CAP, ELECT 100-50V
C35	87-010-406-080		CAP, ELECT 22-50
C36	87-010-112-080		CAP, ELECT 100-16V
C50	87-010-247-080		CAP, ELECT 100-50V
C51	87-010-247-080		CAP, ELECT 100-50V
C60	87-010-403-080		CAP, ELECT 3.3-50V
C61	87-010-260-080		CAP, ELECT 47-25V
C81	87-010-401-080		CAP, ELECT 1-50V
C82	87-010-407-080		CAP, ELECT 33-50V
C83	87-010-260-080		CAP, ELECT 47-25V
C101	87-012-282-080		CAP, U 4700P-50
C102	87-012-282-080		CAP, U 4700P-50
C103	87-010-544-080		CAP, ELECT 0.1-50V
C104	87-010-544-080		CAP, ELECT 0.1-50V
C105	87-012-282-080		CAP, U 4700P-50
C106	87-012-282-080		CAP, U 4700P-50
C107	87-010-403-080		CAP, ELECT 3.3-50V
C108	87-010-403-080		CAP, ELECT 3.3-50V
C111	87-010-406-080		CAP, ELECT 22-50
C112	87-010-406-080		CAP, ELECT 22-50
C113	87-A10-946-080		C-CAP,S 220P-100 J CH
C114	87-A10-946-080		C-CAP,S 220P-100 J CH
C117	87-012-286-080		CAP, U 0.01-25
C118	87-012-286-080		CAP, U 0.01-25
C119	87-012-286-080		CAP, U 0.01-25
C120	87-012-286-080		CAP, U 0.01-25
C125	87-010-759-080		C-CAP,U, 0.1-25F
C126	87-010-759-080		C-CAP,U, 0.1-25F
C127	87-010-759-080		C-CAP,U, 0.1-25F
C128	87-010-759-080		C-CAP,U, 0.1-25F
C140	87-010-190-080		S CHIP F 0.01
C401	87-010-759-080		C-CAP,U, 0.1-25F
C402	87-010-759-080		C-CAP,U, 0.1-25F
C403	87-012-193-080		C-CAP,U 82P-50 CH
C404	87-012-193-080		C-CAP,U 82P-50 CH
C405	87-012-286-080		CAP, U 0.01-25
C406	87-012-286-080		CAP, U 0.01-25
C407	87-012-286-080		CAP, U 0.01-25
C408	87-012-286-080		CAP, U 0.01-25
C409	87-012-278-080		C-CAP,U 2200P-50 B
C410	87-012-278-080		C-CAP,U 2200P-50 B
C411	87-010-405-080		CAP, ELECT 10-50V
C412	87-010-405-080		CAP, ELECT 10-50V
C413	87-012-286-080		CAP, U 0.01-25
C421	87-012-275-080		C-CAP,U 1200P-50 B
C422	87-012-275-080		C-CAP,U 1200P-50 B
C423	87-012-274-080		CHIP CAP,U 1000P-50B
C424	87-012-274-080		CHIP CAP,U 1000P-50B
C425	87-010-263-080		CAP, ELECT 100-10V
C426	87-010-263-080		CAP, ELECT 100-10V
C427	87-012-188-080		C-CAP,U 47P-50 CH
C428	87-012-188-080		C-CAP,U 47P-50 CH
C429	87-010-598-080		C-CAP,S 0.068-16VRK
C430	87-010-598-080		C-CAP,S 0.068-16VRK
C431	87-012-284-080		CAP, U 6800P-50
C432	87-012-284-080		CAP, U 6800P-50
C433	87-010-546-080		CAP, ELECT 0.33-50V
C434	87-010-546-080		CAP, ELECT 0.33-50V
C435	87-010-263-080		CAP, ELECT 100-10V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C441	87-010-759-080		C-CAP,U, 0.1-25F
C442	87-010-759-080		C-CAP,U, 0.1-25F
C443	87-010-759-080		C-CAP,U, 0.1-25F
C445	87-A10-039-080		C-CAP,U 470P-50 J CH
C452	87-010-382-080		CAP, ELECT 22-25V
C453	87-012-279-080		C-CAP,U 2700P-50 B
C454	87-012-279-080		C-CAP,U 2700P-50 B
C455	87-012-279-080		C-CAP,U 2700P-50 B
C456	87-012-286-080		CAP, U 0.01-25
C460	87-010-759-080		C-CAP,U, 0.1-25F
C461	87-012-158-080		C-CAP,S 390P-50 CH
C462	87-012-158-080		C-CAP,S 390P-50 CH
C470	87-A10-039-080		C-CAP,U 470P-50 J CH
C605	87-012-275-080		C-CAP,U 1200P-50 B
C606	87-012-275-080		C-CAP,U 1200P-50 B
C609	87-010-785-080		C-CAP,U0.015-25BK
C610	87-010-785-080		C-CAP,U0.015-25BK
C611	87-010-545-080		CAP, ELECT 0.22-50V
C612	87-010-545-080		CAP, ELECT 0.22-50V
C613	87-010-545-080		CAP, ELECT 0.22-50V
C614	87-010-545-080		CAP, ELECT 0.22-50V
C615	87-012-172-080		CAPACITOR CHIP U 10P CH
C616	87-010-248-080		CAP, ELECT 220-10V
C617	87-016-459-080		CAP,E 470-10 SMG
C618	87-010-405-080		CAP, ELECT 10-50V
C630	87-A10-248-080		C-CAP,U0.1-16KBR
C669	87-012-195-080		C-CAP,U 100P-50CH
C670	87-012-195-080		C-CAP,U 100P-50CH
C671	87-010-831-080		C-CAP,U,0.1-16F
C672	87-010-831-080		C-CAP,U,0.1-16F
C673	87-012-278-080		C-CAP,U 2200P-50 B
C677	87-012-286-080		CAP, U 0.01-25
C679	87-A11-112-080		CAP,TC U 1000P-50 J CH
C681	87-010-401-080		CAP, ELECT 1-50V
C682	87-010-759-080		C-CAP,U, 0.1-25F
C683	87-010-260-080		CAP, ELECT 47-25V
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-012-286-080		CAP, U 0.01-25
C782	87-012-286-080		CAP, U 0.01-25
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-012-286-080		CAP, U 0.01-25
C786	87-012-286-080		CAP, U 0.01-25
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C790	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C791	87-010-759-080		C-CAP,U, 0.1-25F
C792	87-012-286-080		CAP, U 0.01-25
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-012-286-080		CAP, U 0.01-25
C796	87-012-286-080		CAP, U 0.01-25
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-012-286-080		CAP, U 0.01-25
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-010-829-080		CAP, U 0.047-16
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-010-829-080		CAP, U 0.047-16
C803	87-010-787-080		CAP, U 0.022-25
C804	87-010-263-080		CAP, ELECT 100-10V
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-759-080		C-CAP,U, 0.1-25F
C814	87-012-286-080		CAP, U 0.01-25
C815	87-010-400-080		CAP, ELECT 0.47-50V
C816	87-010-400-080		CAP, ELECT 0.47-50V
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-010-404-080		CAP, ELECT 4.7-50V
C825	87-010-596-080		CAP, S 0.047-16

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C836	87-012-286-080		CAP, U 0.01-25
C837	87-012-286-080		CAP, U 0.01-25
C842	87-012-286-080		CAP, U 0.01-25
C844	87-012-286-080		CAP, U 0.01-25
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-012-286-080		CAP, U 0.01-25
C852	87-012-286-080		CAP, U 0.01-25
C853	87-012-286-080		CAP, U 0.01-25
C858	87-010-759-080		C-CAP,U, 0.1-25F
C859	87-010-759-080		C-CAP,U, 0.1-25F
C860	87-012-286-080		CAP, U 0.01-25
C902	87-018-145-080		CAP,TC-U 6.8P-50 CH
C908	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C909	87-012-349-080		C-CAP,S 1000P-50 CH
C911	87-012-170-080		C-CAP,U 8P-50 CH
C912	87-012-195-080		C-CAP,U 100P-50CH
C913	87-012-286-080		CAP, U 0.01-25
C914	87-012-286-080		CAP, U 0.01-25
C915	87-012-286-080		CAP, U 0.01-25
C918	87-012-165-080		CAP 3P
C920	87-012-180-080		C-CAP,U 22P-50 CH
C921	87-012-186-080		C-CAP,U 39P-50 CH
C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C923	87-A10-039-080		C-CAP,U 470P-50 J CH
C924	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C927	87-012-195-080		C-CAP,U 100P-50CH
C961	87-012-170-080		C-CAP,U 8P-50 CH
C962	87-010-401-080		CAP, ELECT 1-50V
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-012-286-080		CAP, U 0.01-25
C974	87-012-286-080		CAP, U 0.01-25
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-759-080		C-CAP,U, 0.1-25F
C983	87-012-286-080		CAP, U 0.01-25
C984	87-012-286-080		CAP, U 0.01-25
C987	87-012-286-080		CAP, U 0.01-25
C990	87-012-195-080		C-CAP,U 100P-50CH
C991	87-012-176-080		CAP 15P
C992	87-012-176-080		CAP 15P
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C994	87-012-195-080		C-CAP,U 100P-50CH
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C996	87-012-195-080		C-CAP,U 100P-50CH
C997	87-010-759-080		C-CAP,U, 0.1-25F
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A
CF832	87-008-261-010		FILTER, SFE10.7MA5-A
CN81	87-009-030-010		CONNECTOR 2P PH M
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN401	87-A60-620-010		CONN,3P V 2MM JMT
CN601	87-099-194-010		CONN,6P 6216V
CNA351	8A-NEC-634-010		CONN ASSY,8P RPB
CNA401	8A-NEC-633-010		CONN ASSY,3P (PH)
D902	87-A40-916-040		C-VARI-CAP,HVC202A
D903	87-A40-916-040		C-VARI-CAP,HVC202A
⚠ F101	87-035-223-010		FUSE, 1.25AT
⚠ FC101	87-033-213-080		CLAMP, FUSE
⚠ FC102	87-033-213-080		CLAMP, FUSE
FC601	88-906-201-110		FF-CABLE,6P 1.25
J101	87-A60-602-010		JACK,DIA6.3 BLK ST W/SW TC
J103	87-A61-452-010		TERMINAL,SP 4P(MSC)
J271	87-A61-243-010		JACK,6.3 BLK MONO W/SW V MSC
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
⚠ JW1	87-A90-093-080		PROTECTOR,3A 491 SERIES 60V
⚠ JW2	87-A90-093-080		PROTECTOR,3A 491 SERIES 60V
L101	87-A50-610-010		COIL,1UH K(MDEC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L102	87-A50-610-010		COIL,1UH K(MDEC)
L451	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-608-010		COIL,FM DET-N(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L903	88-ZA1-602-110		COIL,FM-RF-U2 2G
L904	88-ZA1-601-010		COIL,FM-RF-U1 2G
L906	87-005-847-080		COIL,2.2UH(CECS)
L907	8A-NEC-611-010		COIL,FM OSC U 2G
L908	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
⚠ PT101	8A-NHC-605-010		PT,ANH-C HR
R129	87-A00-258-080		RES,M/F 0.22-1W J
R130	87-A00-258-080		RES,M/F 0.22-1W J
R790	87-012-286-080		CAP, U 0.01-25
RY101	87-045-389-010		RELAY,OSA-SS-212DM5
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C201	87-010-383-040		CAP,E 33-25 SME
C202	87-010-759-080		C-CAP,U, 0.1-25F
C203	87-010-260-040		CAP,E 47-25 SME
C204	87-016-251-040		CAP,E 220-16 SMG
C271	87-012-282-080		CAP, U 4700P-50
C272	87-010-112-040		CAP,E 100-16
C273	87-010-545-040		CAP,E 0.22-50 SME
C274	87-012-195-080		C-CAP,U 100P-50CH
C275	87-010-545-040		CAP,E 0.22-50 SME
C276	87-A10-248-080		C-CAP,U0.1-16KBR
C277	87-010-405-040		CAP,E 10-50
C278	87-012-195-080		C-CAP,U 100P-50CH
C279	87-010-405-040		CAP,E 10-50
C280	87-010-759-080		C-CAP,U, 0.1-25F
C281	87-010-177-080		C-CAP,S 820P-50 SL
C282	87-010-177-080		C-CAP,S 820P-50 SL
C500	87-010-759-080		C-CAP,U, 0.1-25F
C505	87-010-829-080		CAP, U 0.047-16
C506	87-010-263-040		CAP,E 100-10
C507	87-010-246-040		CAP,E 47-35 SME
C508	87-010-192-080		C-CAP,S 0.022-50 F
C509	87-010-404-040		CAP,E 4.7-50 SME
C510	87-010-404-040		CAP,E 4.7-50 SME
C511	87-010-759-080		C-CAP,U, 0.1-25F
C512	87-010-263-040		CAP,E 100-10
C514	87-012-274-080		CHIP CAP,U 1000P-50B
C515	87-012-274-080		CHIP CAP,U 1000P-50B
C517	87-010-759-080		C-CAP,U, 0.1-25F
C518	87-012-268-080		C-CAP,U 330P-50 B
C523	87-010-248-040		CAP,E 220-10 SME
C524	87-010-192-080		C-CAP,S 0.022-50 F
C525	87-010-401-040		CAP,E 1-50 SME
C526	87-012-172-080		CAPACITOR CHIP U 10P CH
C527	87-012-274-080		CHIP CAP,U 1000P-50B
C528	87-010-175-080		CAP 560P
C530	87-012-195-080		C-CAP,U 100P-50CH
C531	87-012-195-080		C-CAP,U 100P-50CH
C532	87-012-195-080		C-CAP,U 100P-50CH
C533	87-012-195-080		C-CAP,U 100P-50CH
C534	87-012-195-080		C-CAP,U 100P-50CH
C535	87-012-195-080		C-CAP,U 100P-50CH
C536	87-012-195-080		C-CAP,U 100P-50CH
C537	87-012-195-080		C-CAP,U 100P-50CH
C538	87-012-195-080		C-CAP,U 100P-50CH
C539	87-012-199-080		CAP 220P
C540	87-010-759-080		C-CAP,U, 0.1-25F
C541	87-016-459-040		CAP,E 470-10 SMG
C543	87-010-405-040		CAP,E 10-50
C590	87-010-384-040		CAP,E 100-25 SME
CN201	87-A60-058-010		CONN,10P V 9604S-10C
CN501	87-A60-673-010		CONN,9P H 2MM JMT
EMI271	87-008-372-080		FILTER, EMI BL OIRNI
FC201	88-910-231-110		FF-CABLE,10P 1.25 230MM
FL501	8A-NEC-601-010		FL,HNA-10SS15T
L501	87-A50-655-010		COIL,CLK 4.19MHZ (TOKO)7KLY
S201	87-A90-095-080		SW,TACT EVQ11G04M
S202	87-A90-095-080		SW,TACT EVQ11G04M
S203	87-A90-095-080		SW,TACT EVQ11G04M
S204	87-A90-095-080		SW,TACT EVQ11G04M
S205	87-A90-095-080		SW,TACT EVQ11G04M
S206	87-A90-095-080		SW,TACT EVQ11G04M
S208	87-A90-095-080		SW,TACT EVQ11G04M
S209	87-A90-095-080		SW,TACT EVQ11G04M
S210	87-A90-095-080		SW,TACT EVQ11G04M
S211	87-A90-095-080		SW,TACT EVQ11G04M
S212	87-A90-095-080		SW,TACT EVQ11G04M
S213	87-A90-095-080		SW,TACT EVQ11G04M
SFR501	87-024-431-080		SFR,3.3K RH063EC
VR271	87-NB7-602-010		VR,RTRY 10KAX1 1 V

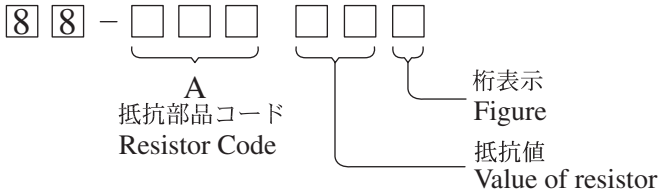
CD C.B

C1	87-A10-222-040		CAP,AS 22-10 OS
C2	87-010-759-080		C-CAP,U, 0.1-25F
C3	87-010-260-080		CAP, ELECT 47-25V
C4	87-A10-222-040		CAP,AS 22-10 OS
C5	87-012-286-080		CAP, U 0.01-25
C6	87-010-405-080		CAP, ELECT 10-50V
C7	87-010-263-080		CAP, ELECT 100-10V
C8	87-012-274-080		CHIP CAP,U 1000P-50B
C10	87-010-546-080		CAP, ELECT 0.33-50V
C11	87-010-401-080		CAP, ELECT 1-50V
C13	87-012-193-080		C-CAP,U 82P-50 CH
C15	87-012-286-080		CAP, U 0.01-25
C16	87-010-260-080		CAP, ELECT 47-25V
C101	87-A10-504-080		C-CAP,U 0.047-16 K B
C102	87-010-401-080		CAP, ELECT 1-50V
C103	87-010-759-080		C-CAP,U, 0.1-25F
C104	87-010-759-080		C-CAP,U, 0.1-25F
C105	87-010-260-080		CAP, ELECT 47-25V
C106	87-012-195-080		C-CAP,U 100P-50CH
C107	87-010-759-080		C-CAP,U, 0.1-25F
C108	87-012-282-080		CAP, U 4700P-50
C109	87-A10-504-080		C-CAP,U 0.047-16 K B
C110	87-012-195-080		C-CAP,U 100P-50CH
C111	87-010-260-080		CAP, ELECT 47-25V
C112	87-012-286-080		CAP, U 0.01-25
C114	87-010-260-080		CAP, ELECT 47-25V
C115	87-012-286-080		CAP, U 0.01-25
C118	87-010-263-080		CAP, ELECT 100-10V
C119	87-012-286-080		CAP, U 0.01-25
C120	87-012-286-080		CAP, U 0.01-25
C123	87-A10-504-080		C-CAP,U 0.047-16 K B
C124	87-010-403-080		CAP, ELECT 3.3-50V
C125	87-010-759-080		C-CAP,U, 0.1-25F
C135	87-012-195-080		C-CAP,U 100P-50CH
C201	87-A10-248-080		C-CAP,U0.1-16KBR
C206	87-012-195-080		C-CAP,U 100P-50CH
C207	87-012-195-080		C-CAP,U 100P-50CH
C208	87-012-195-080		C-CAP,U 100P-50CH
C209	87-012-195-080		C-CAP,U 100P-50CH
C210	87-A10-248-080		C-CAP,U0.1-16KBR
C211	87-010-263-080		CAP, ELECT 100-10V
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-759-080		C-CAP,U, 0.1-25F

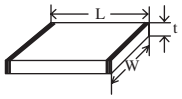
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C306	87-010-112-080		CAP, ELECT 100-16V
C307	87-010-759-080		C-CAP,U, 0.1-25F
C308	87-010-263-080		CAP, ELECT 100-10V
C309	87-010-759-080		C-CAP,U, 0.1-25F
C310	87-010-263-080		CAP, ELECT 100-10V
C311	87-010-759-080		C-CAP,U, 0.1-25F
C401	87-010-101-080		CAP, ELECT 220-16
C402	87-010-759-080		C-CAP,U, 0.1-25F
C403	87-010-759-080		C-CAP,U, 0.1-25F
C404	87-010-759-080		C-CAP,U, 0.1-25F
C405	87-010-759-080		C-CAP,U, 0.1-25F
C406	87-010-759-080		C-CAP,U, 0.1-25F
C501	87-012-286-080		CAP, U 0.01-25
C502	87-012-286-080		CAP, U 0.01-25
C503	87-012-286-080		CAP, U 0.01-25
C504	87-012-172-080		CAPACITOR CHIP U 10P CH
C505	87-012-172-080		CAPACITOR CHIP U 10P CH
C506	87-012-286-080		CAP, U 0.01-25
C508	87-010-263-080		CAP, ELECT 100-10V
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-080		CAP, ELECT 100-10V
C511	87-010-759-080		C-CAP,U, 0.1-25F
C512	87-012-286-080		CAP, U 0.01-25
C513	87-012-286-080		CAP, U 0.01-25
C514	87-012-286-080		CAP, U 0.01-25
C518	87-012-195-080		C-CAP,U 100P-50CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-197-080		C-CAP,U 150P-50 CH
C523	87-012-286-080		CAP, U 0.01-25
C524	87-012-286-080		CAP, U 0.01-25
C525	87-012-286-080		CAP, U 0.01-25
C526	87-012-286-080		CAP, U 0.01-25
C527	87-012-286-080		CAP, U 0.01-25
C528	87-012-286-080		CAP, U 0.01-25
C529	87-012-286-080		CAP, U 0.01-25
C530	87-012-286-080		CAP, U 0.01-25
C531	87-012-286-080		CAP, U 0.01-25
C532	87-010-374-040		CAP,E 47-10
C533	87-012-286-080		CAP, U 0.01-25
C534	87-010-263-080		CAP, ELECT 100-10V
C535	87-012-286-080		CAP, U 0.01-25
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-190-080		S CHIP F 0.01
C538	87-010-759-080		C-CAP,U, 0.1-25F
C539	87-010-759-080		C-CAP,U, 0.1-25F
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-012-286-080		CAP, U 0.01-25
C542	87-012-188-080		C-CAP,U 47P-50 CH
C544	87-012-286-080		CAP, U 0.01-25
C546	87-012-286-080		CAP, U 0.01-25
C560	87-010-759-080		C-CAP,U, 0.1-25F
C601	87-012-286-080		CAP, U 0.01-25
C602	87-012-286-080		CAP, U 0.01-25
C603	87-010-112-080		CAP, ELECT 100-16V
C604	87-010-759-080		C-CAP,U, 0.1-25F
C605	87-012-286-080		CAP, U 0.01-25
C606	87-012-286-080		CAP, U 0.01-25
C607	87-012-178-080		C-CAP,U 18P-50 CH
C608	87-012-178-080		C-CAP,U 18P-50 CH
C609	87-012-274-080		CHIP CAP,U 1000P-50B
C610	87-012-274-080		CHIP CAP,U 1000P-50B
C611	87-012-274-080		CHIP CAP,U 1000P-50B
C612	87-012-274-080		CHIP CAP,U 1000P-50B
C613	87-A10-303-080		CAP,M 0.047-50 J
C614	87-A10-303-080		CAP,M 0.047-50 J
C615	87-012-188-080		C-CAP,U 47P-50 CH
C616	87-012-188-080		C-CAP,U 47P-50 CH
C617	87-012-286-080		CAP, U 0.01-25
C618	87-010-112-080		CAP, ELECT 100-16V
C619	87-012-286-080		CAP, U 0.01-25
C701	87-012-196-080		C-CAP,U 120P-50 CH
C702	87-010-494-080		CAP ELECT GAS 1/50
C703	87-012-286-080		CAP, U 0.01-25
C704	87-016-526-080		C-CAP,S 0.47-16 BK
C705	87-010-371-080		CAP, ELECT 470-6.3V
C706	87-010-759-080		C-CAP,U, 0.1-25F
C707	87-012-286-080		CAP, U 0.01-25
C708	87-A11-167-080		C-CAP,S 27P-50 F CH
C709	87-A11-167-080		C-CAP,S 27P-50 F CH
C711	87-012-172-080		C-CAP,U, 10P-50 D CH
C900	87-A11-144-080		CAP,TC U,0.1-50 KB
C901	87-A11-144-080		CAP,TC U,0.1-50 KB
CN1	87-A60-424-010		CONN,16P V TOC-B
CN301	87-099-199-010		CONN,6P 6216 H
CN401	87-099-199-010		CONN,6P 6216 H
CN403	87-A60-077-010		CONN,10P H 9604S-10F
CN404	87-A60-082-010		CONN,05P H 9604S-05F
FB501	87-008-372-080		FILTER, EMI BL OIRNI
FB601	87-A50-189-080		C-COIL,S BLM21B272S
FB602	87-A50-189-080		C-COIL,S BLM21B272S
FB603	87-A50-189-080		C-COIL,S BLM21B272S
FC1	8A-NHC-603-010		FF-CABLE,16P -1.0
FC401	88-906-121-110		FF-CABLE,6P
FC404	88-905-201-110		FF-CABLE, 5P 1.25
J701	87-009-502-010		JACK,PIN 1P Y EARTH
JR302	87-005-778-080		C-COIL,10UK NLC25
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-196-080		COIL,10UH
L701	87-005-817-080		C-COIL, 33UH J FLC32
R507	87-A00-408-080		C-RES,S 2K-1/10W D
R536	87-012-286-080		CAP, U 0.01-25
S201	87-A90-162-010		SW,SL 1-1-3 SSSU
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ
CD LOAD C.B			
CON6	87-099-210-010		CONN,5P 6216H
M1	87-045-305-010		MOTOR,RF-500TB DC-5V(2MA)
SW1	87-036-110-010		PUSH SWITCH
SW2	87-036-110-010		PUSH SWITCH
CD DRIVE C.B			
CON3	87-A60-086-010		CONN,6P H 6216
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

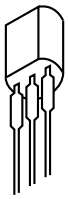
TRANSISTOR ILLUSTRATION

E C B

CC5551
CSA952K
KTA1266GR
KTC3198GR

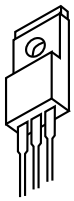
E C B

2SC5342Y
2SC5343G



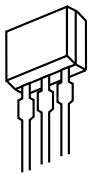
E C B

CSC4115BC



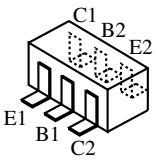
B C E

2SB1342
2SB1370
2SD1933

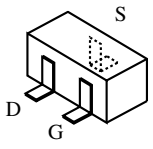


S D G

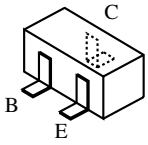
2SJ460
2SK2541



HN1C03F



2SK360E



2SA1162GR
2SA1235F
2SC2712GR
2SC2714O
2SC3052F
2SC5345S(0)
CMBT5401
CMBT5551
DTA123JKA
DTA124XKA
DTC124XKA
KRA107S
KRC104S
RT1N441C
RT1P141C

B FRONT C.B

FL501
DISPLAY

IC502
REMOTE SENSOR

S213
OPEN/CLOSE

S206
∧ VOLUME UP

S210
◀◀/I◀◀ DOWN /PREVIOUS

S211
▶▶/▶▶I UP/ NEXT TUNING

S212
∨ VOLUME DOWN

S202
GEQ

S204
▶PRESET/SELECT

J271
MIC

VR271
MIC MIXING

TO TAPE MECHANISM ZZM-2 PRINC (CNA501)

TO TAPE MECHANISM ZZM-2 PRINC (CNA351)

TO TAPE MECHANISM ZZM-2 PRINC (CNA201)

S201
POWER⏻ STANDBY/ON

S205
■ SET

S208
■CLEAR/ RETURN

S209
FUNCTION

S203
T-BASS

J101
PHONES

TO FC C.B CN403 (FC201)

J831
ANTENNA

AM LOOP

FM 75Ω

R
L
VIDEO/AUX

TO FAN

(L)
(R)
⊕ ⊖
SPEAKERS
SPEAKER IMP:6Ω

(FC601)
TO CD C.B CN301

PT101

T102
BLU
BRN
AC120V/ 220-230V/ 240V 50/60HZ

T101

F101

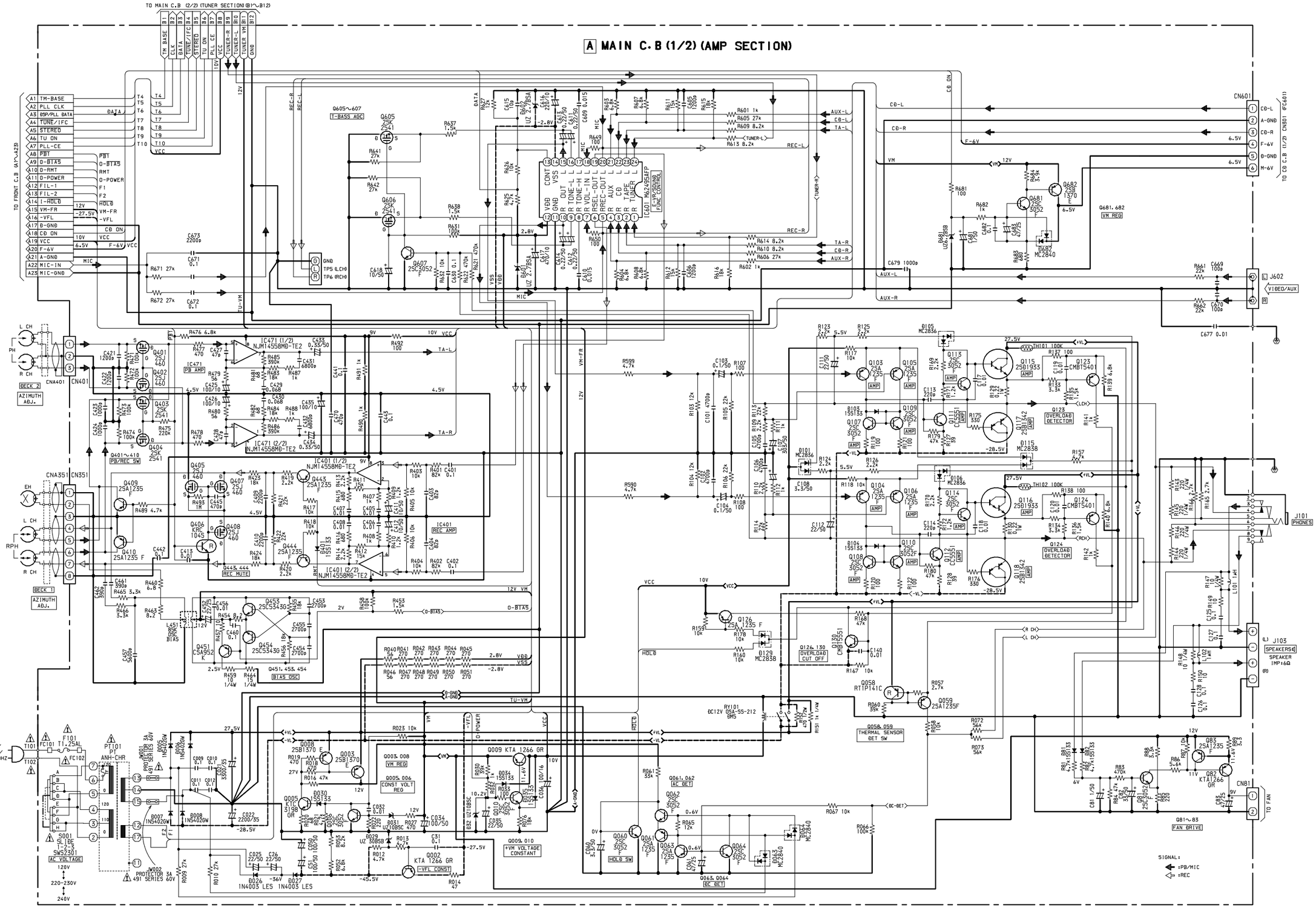
FC102

FC101

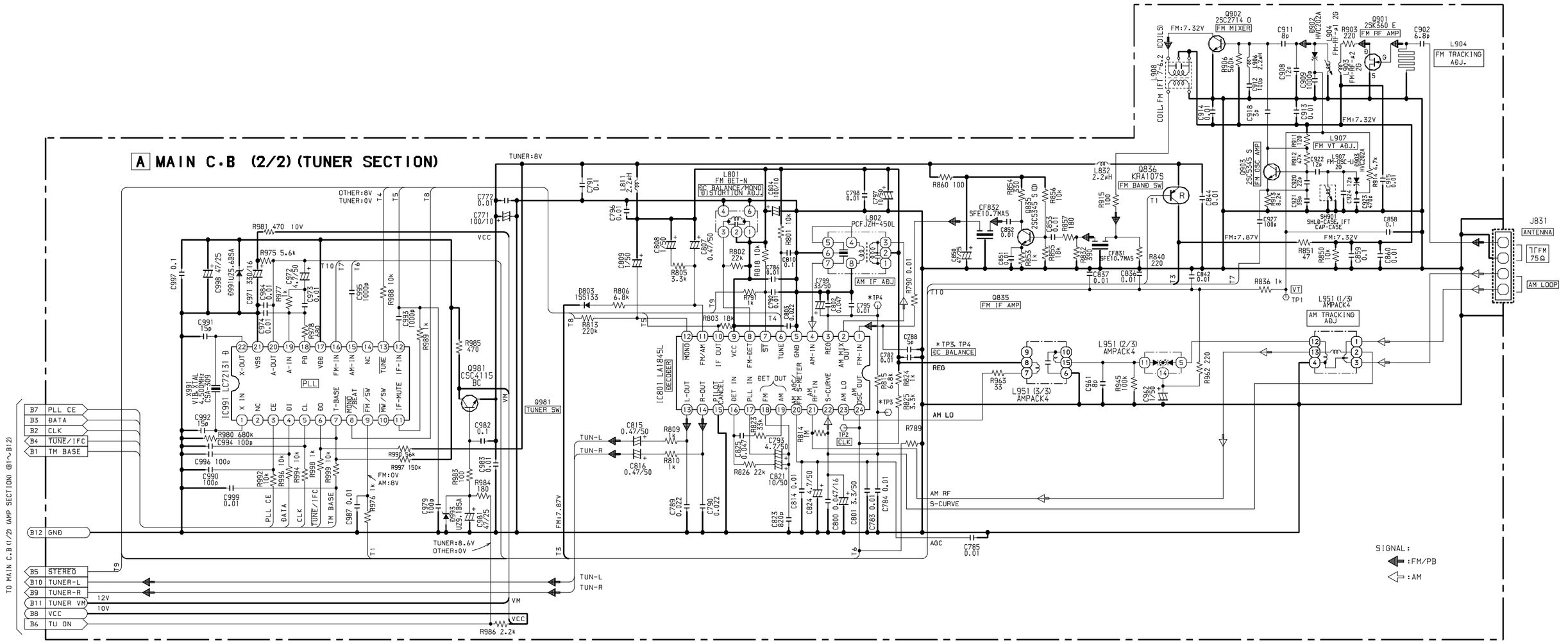
S001
AC VOLTAGE
120V ↔ 220-230V ↔ 240V

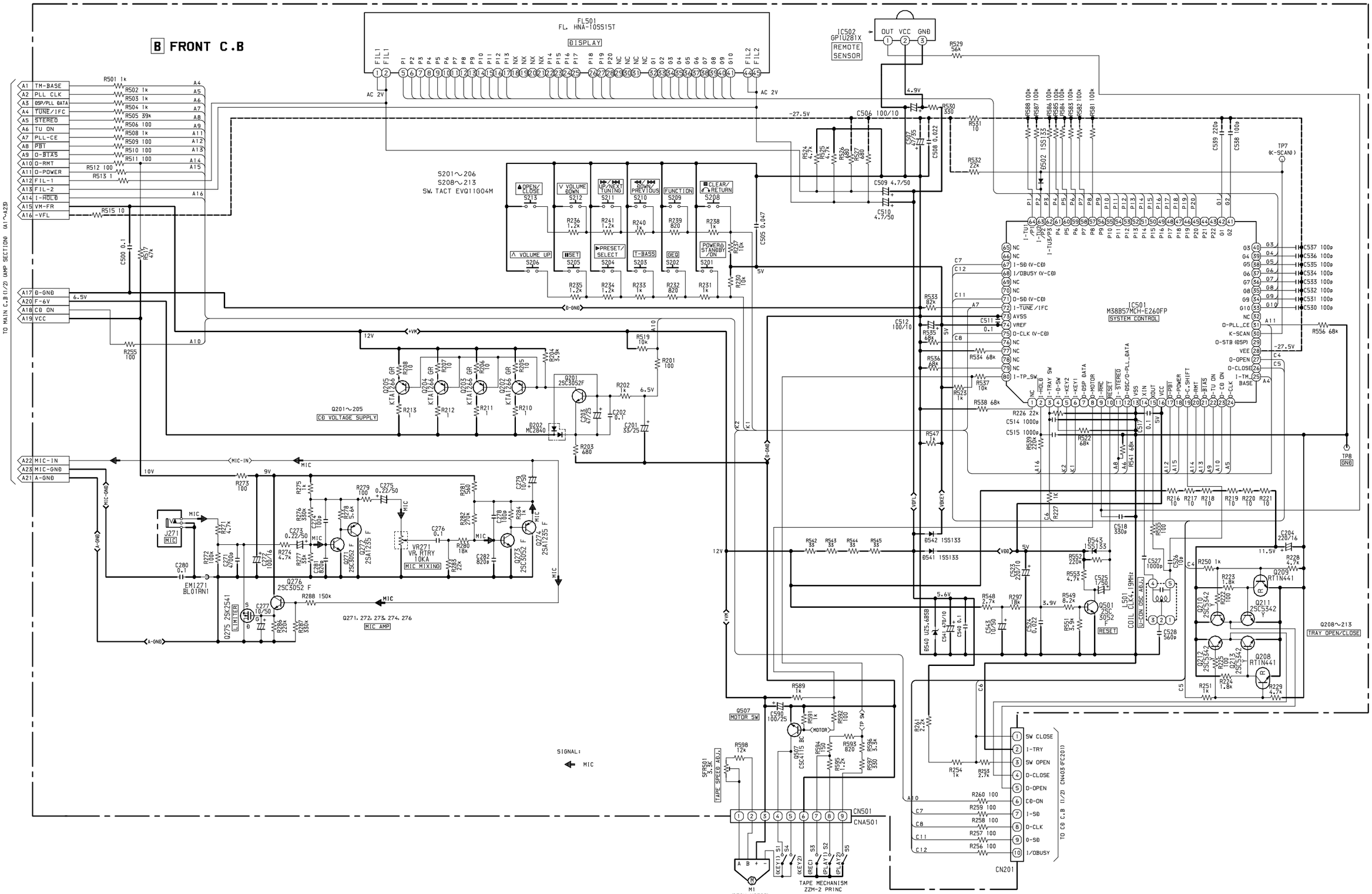
A MAIN C.B

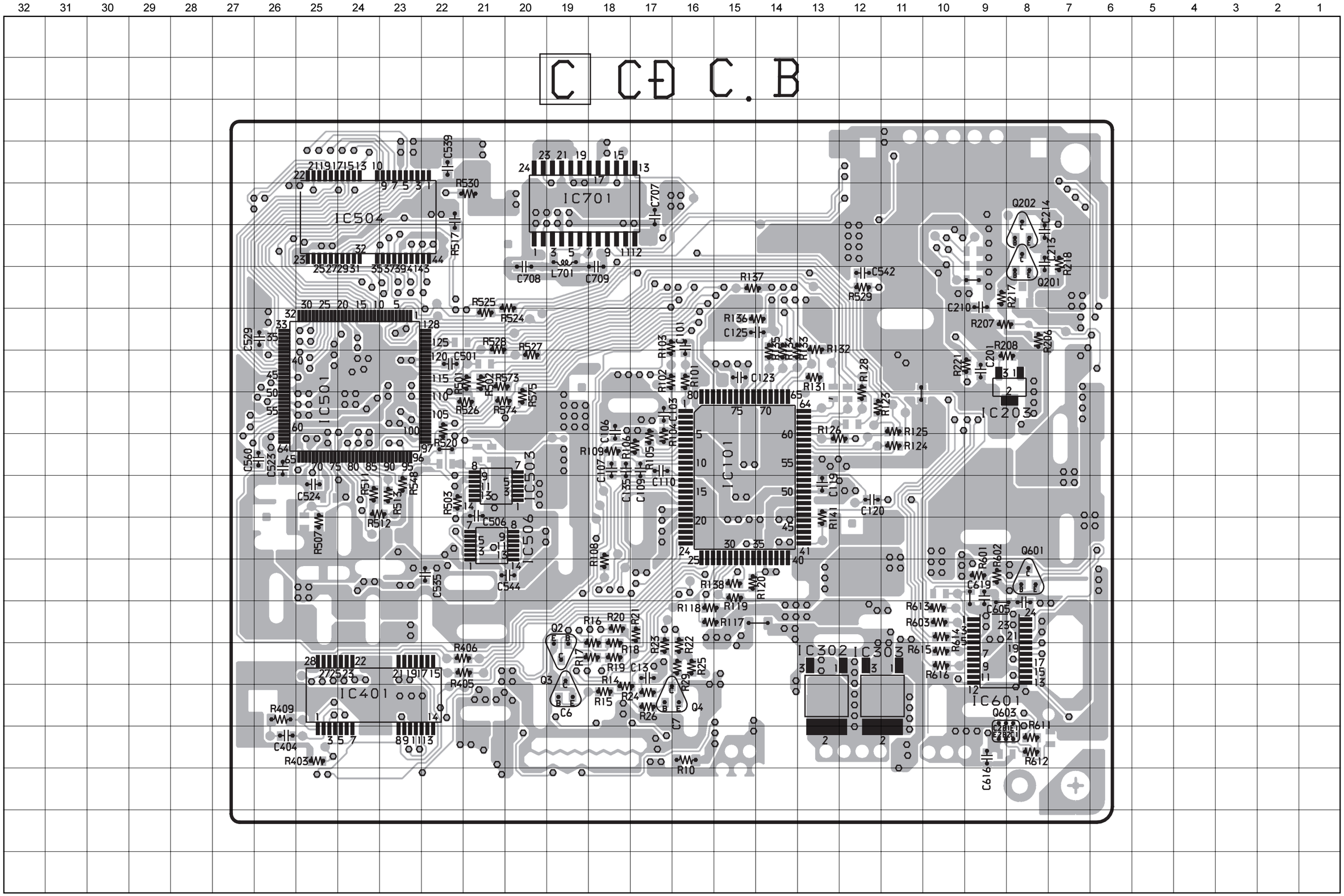
SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP SECTION)

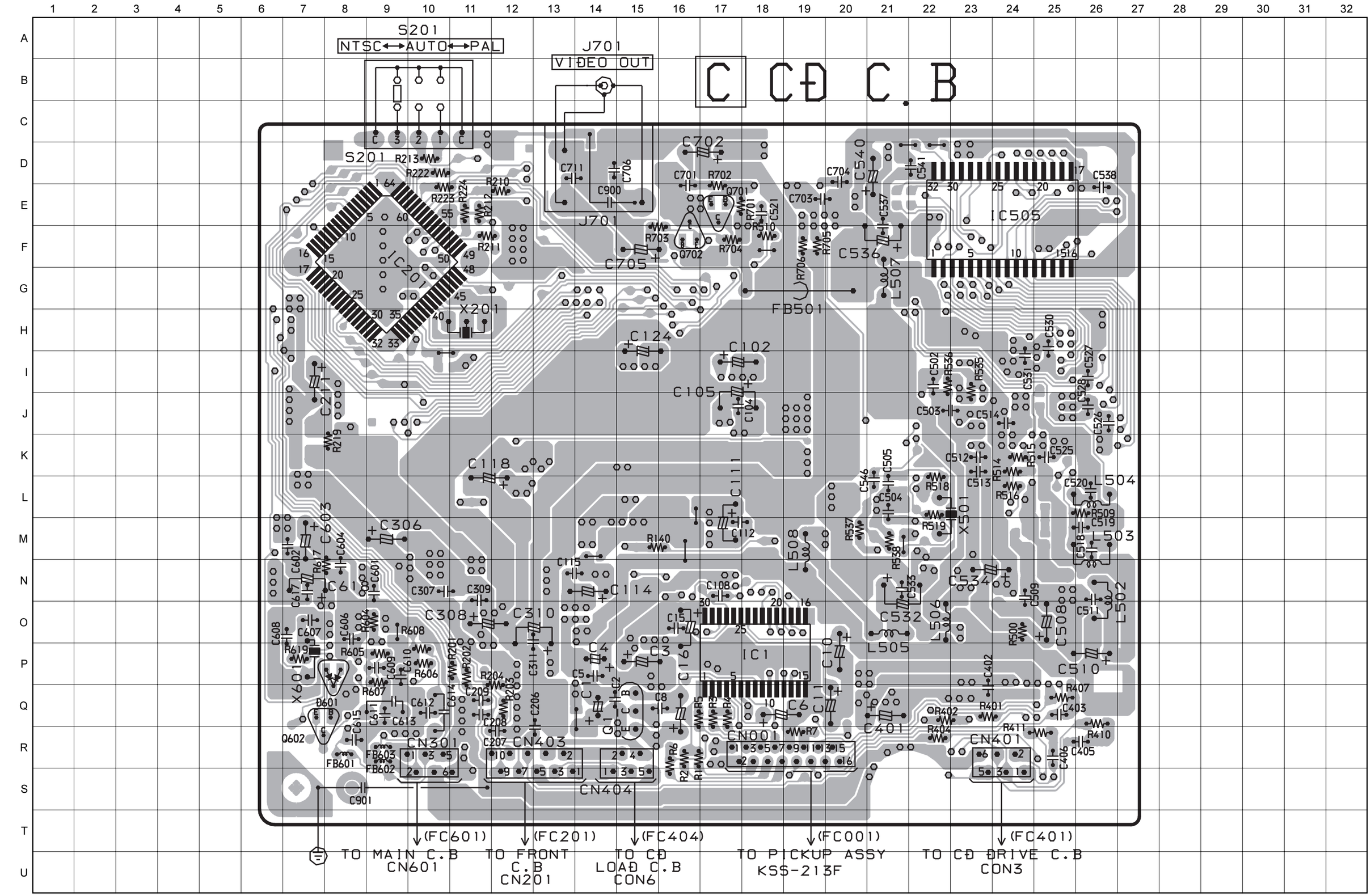


SCHEMATIC DIAGRAM – 2 (MAIN 2 / 2 : TUNER SECTION)

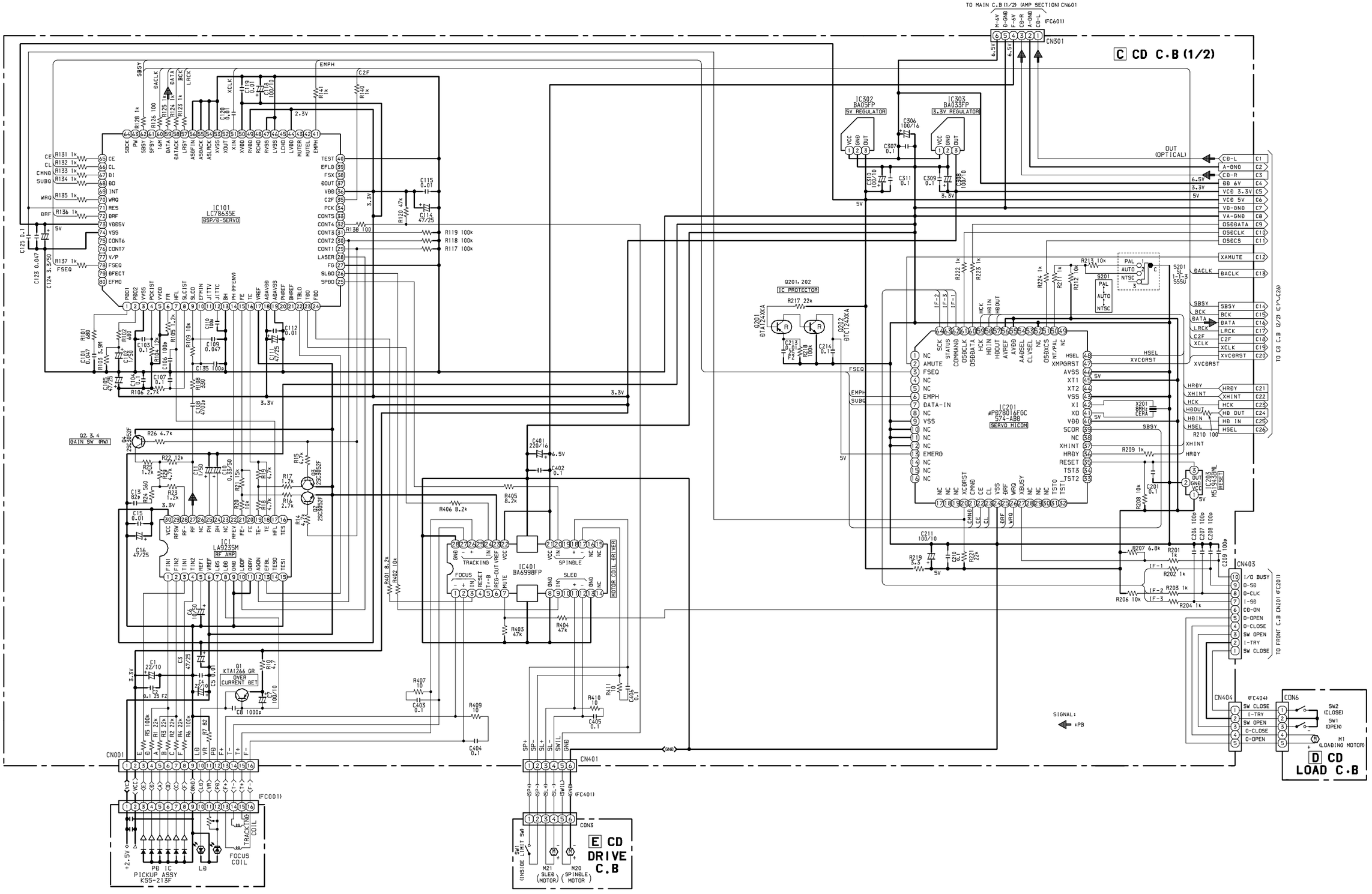


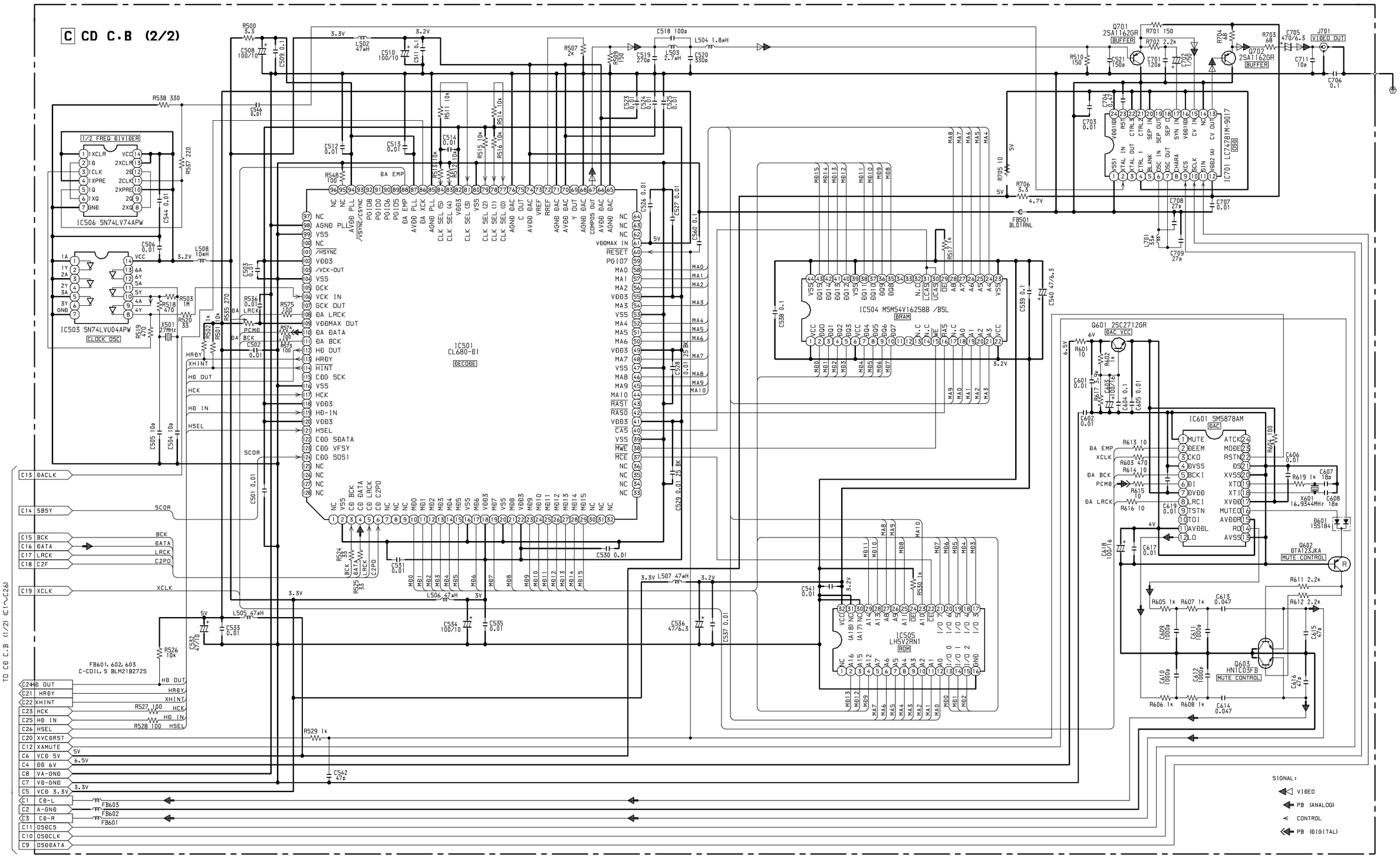

B FRONT C.B
FL501
FL. HNA-10SS15T
DISPLAY
IC502
GP1U281X
REMOTE SENSOR
OUT VCC GND
S201~206
S208~213
SW. TACT EVQ11G04M
OPEN/CLOSE S213
V VOLUME DOWN S212
UP/NEXT TUNING S211
DOWN/PREVIOUS S210
FUNCTION S209
CLEAR/RETURN S208
VOLUME UP S206
PRESET/SELECT S204
T-BASS S203
GEQ S202
POWER/STANDBY/ON S201
IC501
M38B57MCH-E260FP
SYSTEM CONTROL
TO MAIN C.B (1/2) (AMP SECTION) (A1~A23)
Q201~205
CD VOLTAGE SUPPLY
MIC AMP
Q271. 272. 273. 274. 276
VR271
VR, RTRY
10KA
MIC MIXING
Q275 2SK2541
L MITER
EMI271
BL01RN1
J271
MIC
Q276
2SC3052 F
Q507
MOTOR SW
SFR501
5.3K
TAPE SPEED ADJ.
CN501
CNA501
CN201
TO CD C.B (1/2) CN403 (FFC201)
SW CLOSE
I-TRY
SW OPEN
O-CLOSE
O-OPEN
CD-ON
I-SD
O-CLK
O-SD
I/OBUSY
M1
(DECK MOTOR)
TAPE MECHANISM
ZZM-2 PRINC
SIGNAL:
MIC
Q208~213
TRAY OPEN/CLOSE
L501
COIL CLK4.19MHz
VCON OSC ADJ.
Q501
2SC
3052
RESET
TP7
(K-SCAN)
TP8
GND

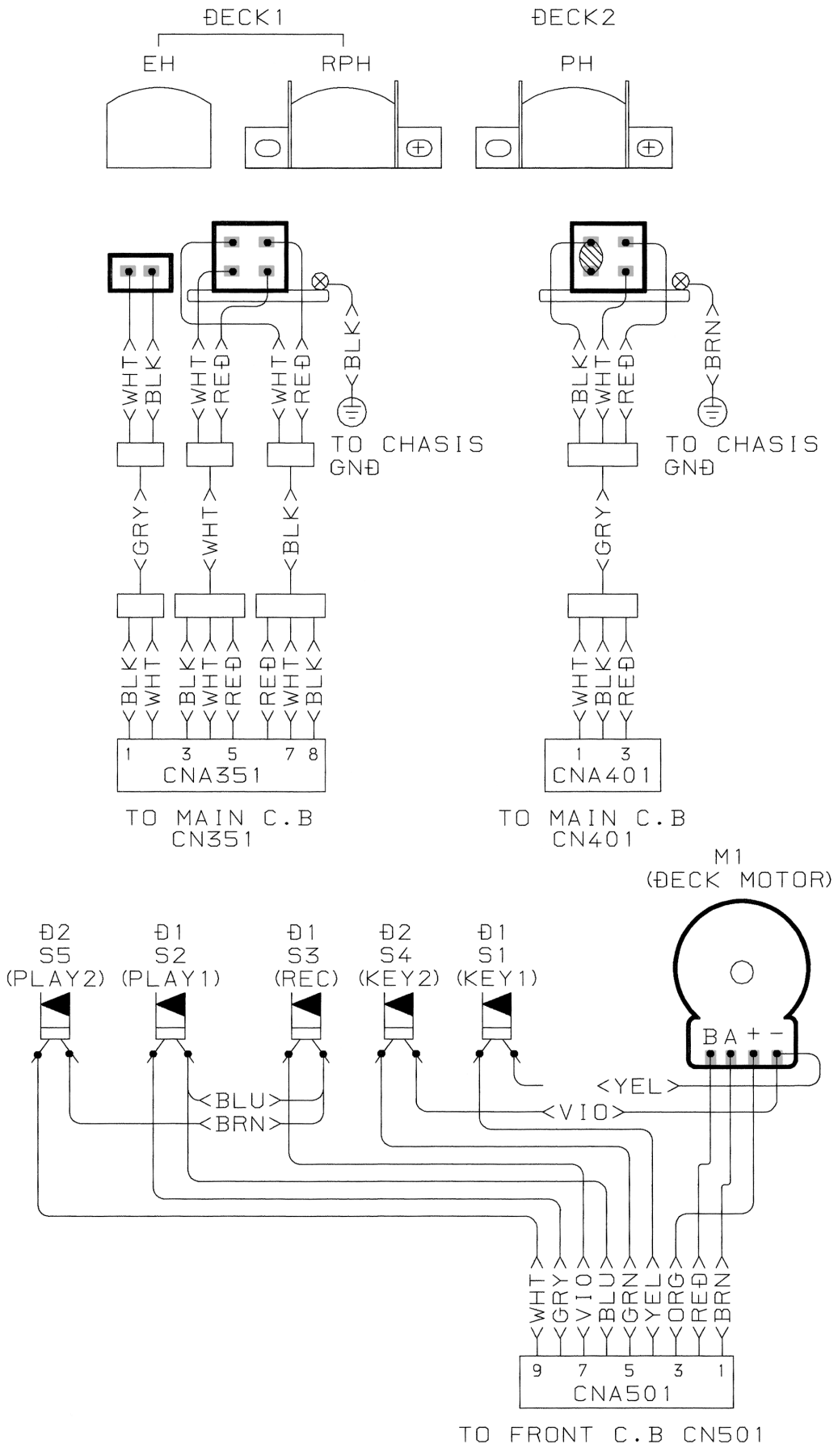

C CD C.B
IC504
IC701
IC501
IC503
IC506
IC101
IC401
IC302
IC303
IC203
IC601
Q202
Q201
Q601
Q603
Q2
Q3
Q4
L701
C708
C709
C707
C539
C529
C501
C560
C523
C524
C535
C544
C506
C404
C6
C7
C10
C120
C125
C123
C210
C201
C605
C619
C616
R530
R517
R525
R524
R528
R527
R526
R574
R573
R575
R520
R511
R513
R548
R512
R507
R503
R409
R403
R406
R405
R137
R136
R132
R131
R128
R126
R125
R124
R123
R109
R108
R138
R120
R119
R1184
R117
R207
R208
R217
R218
R221
R206
R529
R542
R601
R602
R603
R613
R614
R615
R616
R611
R612
R10
C214
C213

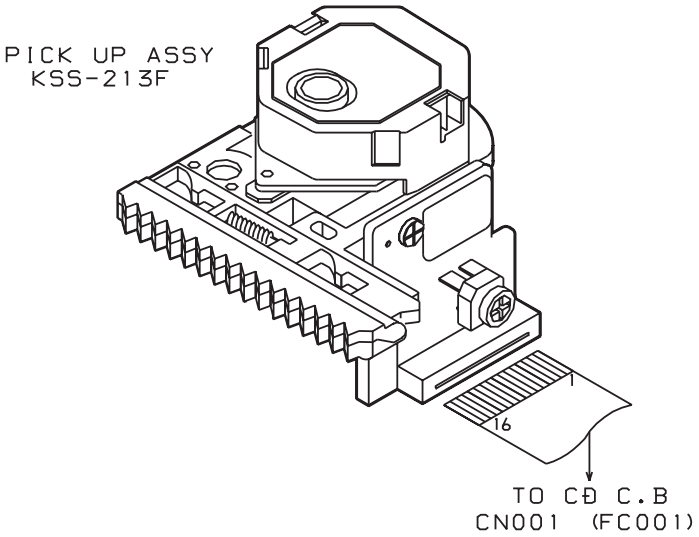

CD C.B
S201
NTSC AUTO PAL
J701
VIDEO OUT
IC201
IC505
IC1
X201
X601
X501
FB501
CN301
CN403
CN404
CN001
CN401
TO MAIN C.B CN601 (FC601)
TO FRONT C.B CN201 (FC201)
TO CD LOAD C.B CON6 (FC404)
TO PICKUP ASSY KSS-213F (FC001)
TO CD DRIVE C.B CON3 (FC401)

SCHEMATIC DIAGRAM – 4 (CD : 1 / 2 / CD LOAD / CD DRIVE)

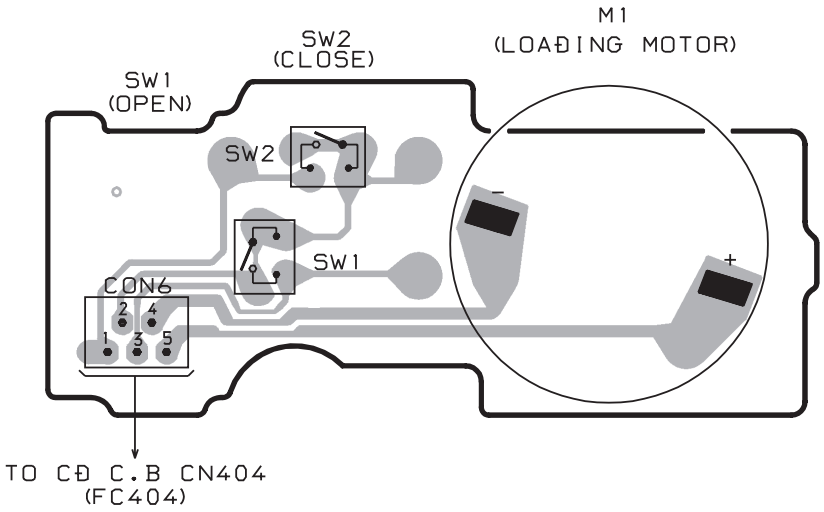



C CD C.B (2/2)
IC506 SN74LV74APW
IC503 SN74LVU04APW
CLOCK OSC
IC501 CL680-01
DECODE
IC504 MSM54V16258B /BSL
DRAM
IC505 LH5V2AN1
ROM
IC601 SM5878AM
DAC
IC701 LC74781M-9017
OSD
Q701 2SA1162GR BUFFER
Q702 2SA1162GR BUFFER
Q601 2SC2712GR DAC VCC
Q602 DTA123JKA MUTE CONTROL
Q603 HN1C03FB MUTE CONTROL
J701 VIDEO OUT
FB501 BL01RNL
D601 1SS184
X501 27MHz
X601 16.9344MHz
FB601, 602, 603 C-COIL S BLM21B272S
TO CB C.B (1/2) (C1~C26)
SIGNAL:
VIDEO
PB (ANALOG)
CONTROL
PB (DIGITAL)

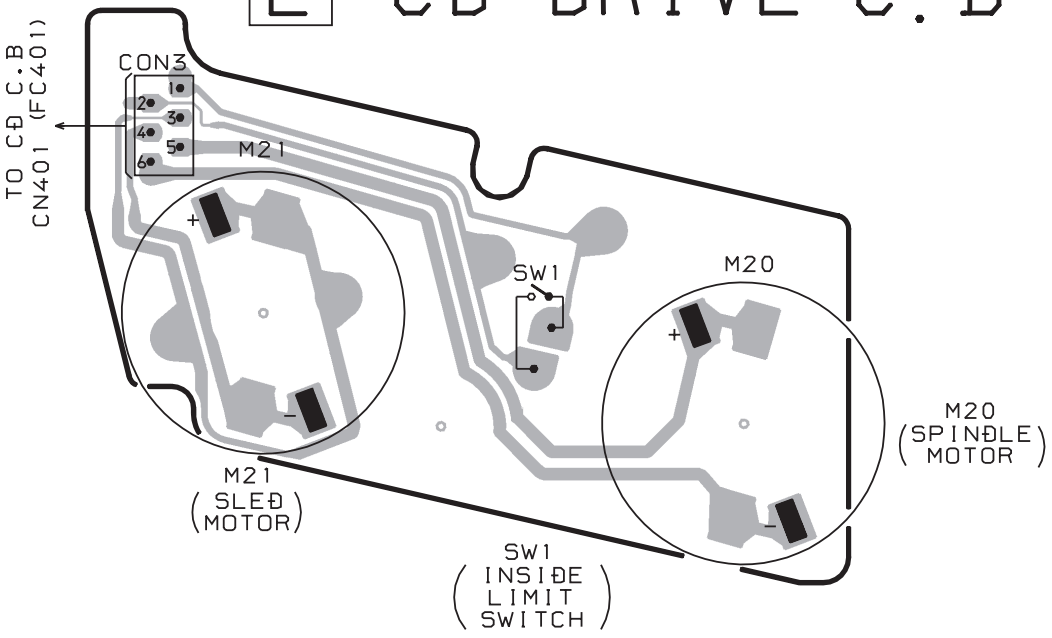

ĐECK1
EH
RPH
ĐECK2
PH
WHT
BLK
WHT
REĐ
WHT
REĐ
BLK
TO CHASIS
GNĐ
GRY
WHT
BLK
BLK
WHT
BLK
WHT
REĐ
REĐ
WHT
BLK
1 3 5 7 8
CNA351
TO MAIN C.B
CN351
BLK
WHT
REĐ
BRN
TO CHASIS
GNĐ
GRY
WHT
BLK
REĐ
1 3
CNA401
TO MAIN C.B
CN401
M1
(ĐECK MOTOR)
Đ2
S5
(PLAY2)
Đ1
S2
(PLAY1)
Đ1
S3
(REC)
Đ2
S4
(KEY2)
Đ1
S1
(KEY1)
B A + −
BLU
BRN
YEL
VIO
WHT
GRY
VIO
BLU
GRN
YEL
ORG
REĐ
BRN
9 7 5 3 1
CNA501
TO FRONT C.B CN501



D CD LOAD C.B



E CD DRIVE C.B



ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz, 530kHz and check that the test point is less than 8.5V (1710kHz) and more than 0.6V (530kHz).

3. FM VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L907
   Method : Set to FM 108.0MHz and adjust L907 so that the test point is 7.0V ± 50mV.

4. AM Tracking Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : L951(1/3)
   Method : Set to AM 1000kHz and adjust L951(1/3) to MAX.

5. FM Tracking Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : L904
   Method : Set to FM 87.5MHz and adjust L904 so that the test point is maximum.

6. AM IF Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location :
   L802 ..... 450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP5 (Lch), TP6 (Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 is 0V ± 500mV. Then check the distortion is less than 1.3%

< DECK SECTION >

1. Tape Speed Adjustment (DECK 1)
   Settings : • Test tape : TTA–100
   • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : SFR501
   Method : Play back the test tape and adjust SFR501 so that the frequency counter reads 3000Hz ± 5Hz (FWD) and ± 45Hz (REV) with respect to forward speed.

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point :TP5 (Lch), TP6 (Rch)
   Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB ± 4dB.

4. REC/PB Frequency Response Check (DECK 1)
   Settings : • Test tape : TTA–602
   • Test point : TP5 (Lch), TP6 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP5, TP6 becomes 80mV. Record and play back the 1kHz and 8kHz signal and check that the output of the 8kHz signals is 0dB ± 5dB with respsct to that of the 1 kHz signal.

5. REC/PB Sensitivity Check (DECK 1)
   Settings : • Test tape : TTA–602
   • Test point : TP5 (Lch), TP6 (Rch)
   • Input signal : 1kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 8mV. Record and play back the 1kHz signals and check that the output is –2dB ± 3.5dB.

6. PB Sensitivity Check (DECK 1, Deck 2)
   Settings : • Test tape : TTA–200
   • Test point :TP5 (Lch), TP6 (Rch)
   Method : Play back the test tape and check that the output level of the test point is 110mV ± 3.5dB.

< FRONT SECTION >

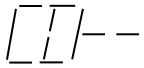
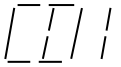
1. µ-CON OSC Adjustment
   Settings : • Test point : TP7 (K-SCAN) and TP8 (GND)
   • Adjustment location : L501
   Method : Insert AC plug while pressing function key and power key. Adjust L501 so that the frequency at the test point is 233.4Hz ± 0.23Hz.

CD TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

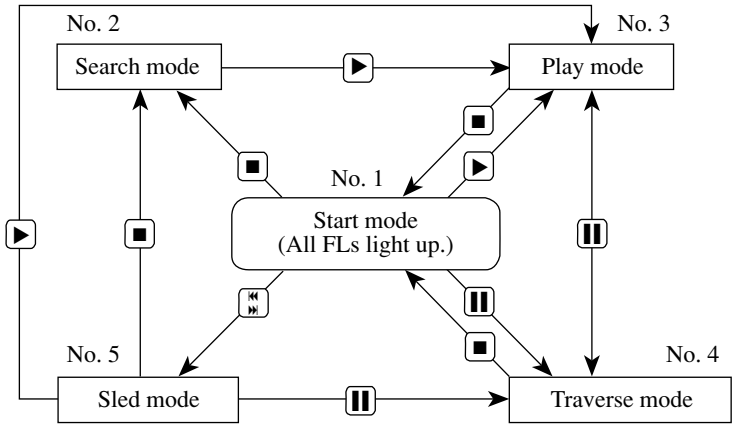
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   • Press the power switch button.
   • Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	• Test mode is activated. • CD block power is ON.	• FL display check (All displays light.)
Search mode No.2	■ key		• Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	• APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) FOCUS SERVO • Check focus search waveform • Check focus error waveform (DRF/FZC are not monitored in the search mode)
Play mode No.3	▶ key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check DRF
Traverse mode No.4	❙❙ key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮ key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

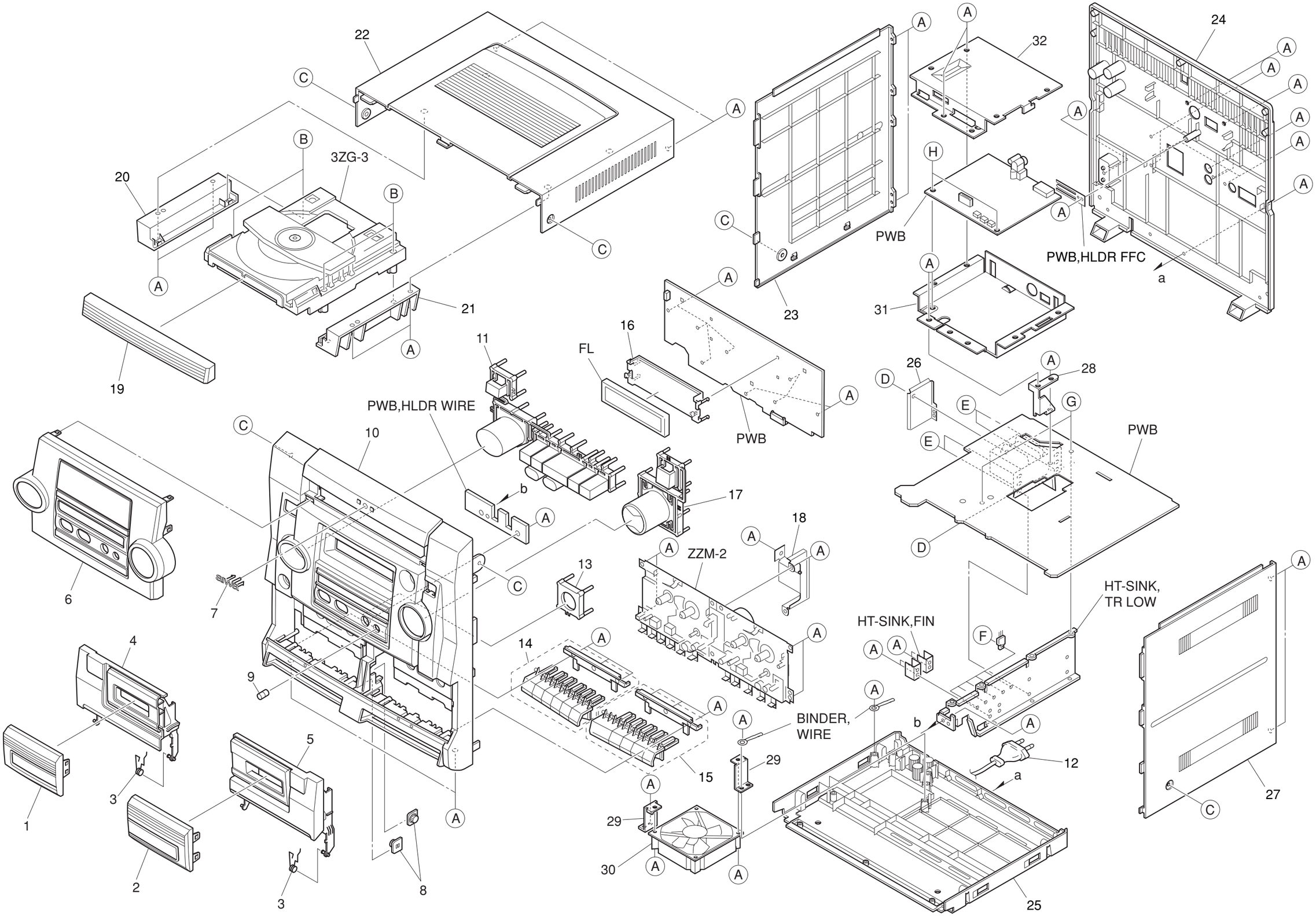
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the ❙❙ status is active. If they are pressed, playback will not be possible after the ❙❙ status has been canceled. If the ⏮ or ⏭ keys are pressed in the ❙❙ status, press the ■ key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

MECHANICAL EXPLODED VIEW 1 / 1



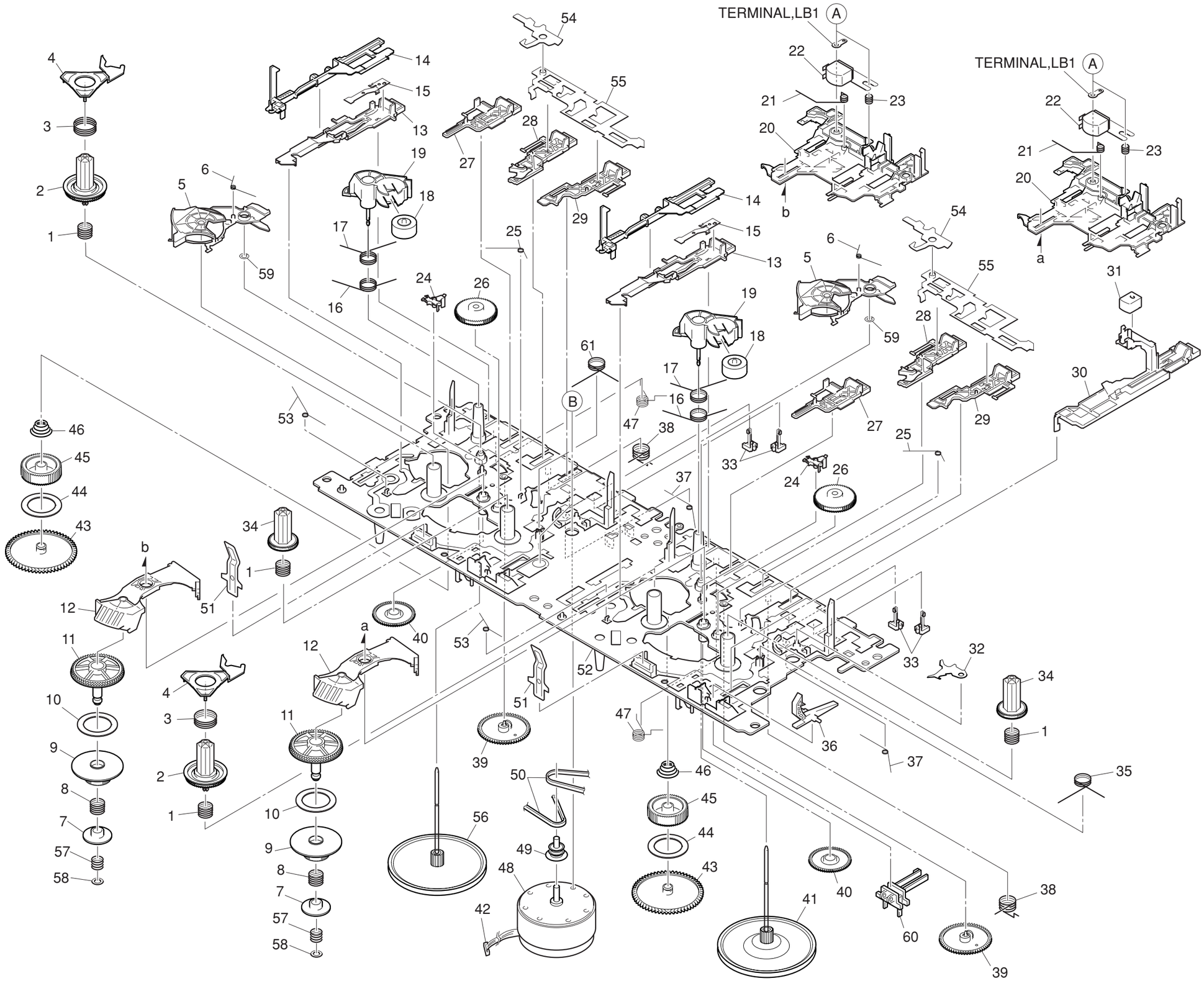
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NEC-006-010		WINDOW,CASS 1
2	8A-NEC-007-010		WINDOW,CASS 2
3	82-NF7-218-010		SPR-T,CASS
4	8A-NEC-002-010		BOX,CASS 1
5	8A-NEC-003-010		BOX,CASS 2
6	8A-NHC-002-010		WINDOW,DISP HR VCD
7	87-CE3-023-010		BADGE,AIWA 30N SILV
8	86-NFZ-231-010		DMPR,70
9	8Z-NF8-028-110		KNOB,RTRY MIC
10	8A-NHC-005-010		CABI,FR HR VCD
11	8A-NHC-001-010		KEY,POWER VCD
⚠ 12	87-A80-083-010		AC CORD,HC BLK
13	8A-NEC-041-010		PLATE,MIC
14	8A-NEC-010-010		KEY,CASS 1
15	8A-NEC-011-010		KEY,CASS 2
16	8A-NFA-208-010		GUIDE,FL 100-25 ANFA
17	8A-NEC-009-010		KEY,OPEN/CLOSE
18	8A-NEC-206-010		HLDR,DECK
19	8A-NEC-004-010		PANEL,TRAY CD
20	8A-NEC-203-010		HLDR,CD L
21	8A-NEC-204-010		HLDR,CD R
22	8A-NEC-015-010		PANEL,TOP
23	8A-NEC-013-010		PANEL,LEFT
24	8A-NHC-011-010		CABI,REAR HRJ VCD W/O SPEC
25	8A-NHC-210-010		CABI,BOTTOM VCD
26	8A-NEC-201-110		HLDR,PT
27	8A-NEC-014-010		PANEL,RIGHT
28	8A-NHC-202-010		HLDR,VCD
29	8A-NHC-206-010		HLDR,FAN
30	87-A91-751-010		FAN,DSB0812M-S382 -400MM
31	8A-NHC-201-010		COVER, VCD BOTTOM
32	8A-NHC-203-010		COVER, VCD TOP
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-822-010		BVT2+3-20 W/O SLOT
C	87-067-641-010		UTT2+3-8(W/O SLOT)BL
D	87-571-092-410		TAPPING SCREW, VIT+3-4
E	87-067-975-010		S-SCREW,IT+4-8
F	87-067-001-010		S-SCREW,BVWWST2+3-12 W/O SLOT
G	87-067-579-010		TAPPING SCREW, BVT2+3-8
H	87-067-584-010		TAPPING SCREW, BVT2+3-6

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

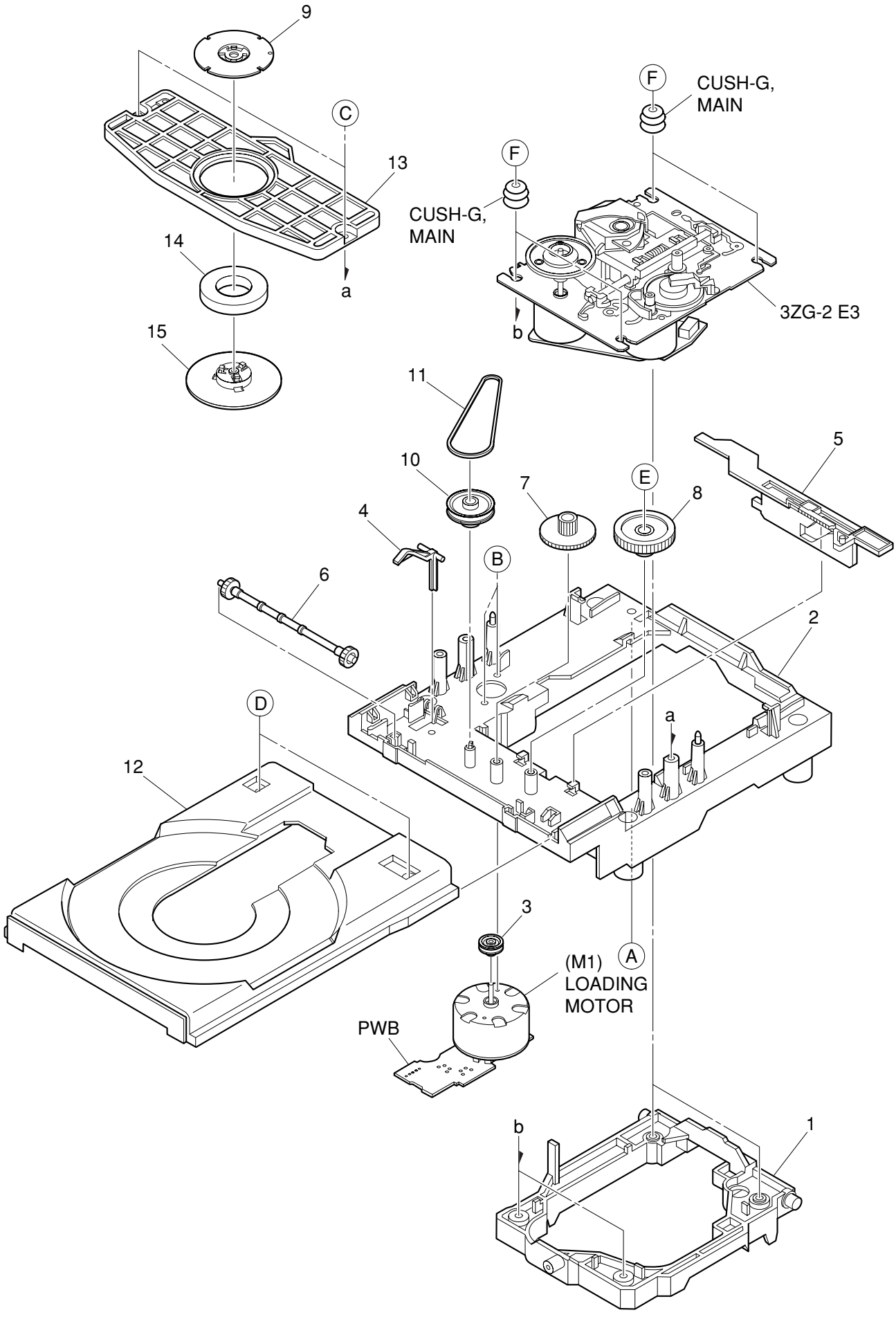
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-310		SPR-C,REEL R
2	8Z-ZM1-225-110		GEAR,REEL R
3	8Z-ZM1-253-210		SPR-C,AUTO SENSOR
4	8Z-ZM1-217-110		LEVER,AUTO SENSOR
5	8Z-ZM1-212-210		LEVER,T-UP
6	8Z-ZM1-245-310		SPR-T,AUTO
7	8Z-ZM1-236-010		CLR,SLIP FF/REW
8	8Z-ZM1-252-110		SPR-C,FF/REW
9	8Z-ZM2-213-010		GEAR,SLIP FR A ZZM-2
10	8Z-ZM1-269-010		FELT,FF/REW 2
11	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
12	8Z-ZM1-237-110		LEVER,FF/REW 2
13	8Z-ZM1-209-510		LEVER,PAUSE
14	8Z-ZM1-218-210		LEVER,E-LOCK H
15	8Z-ZM1-256-010		SPR-P,PAUSE
16	8Z-ZM1-244-110		SPR-T,T-UP
17	8Z-ZM1-247-310		SPR-T,PINCH
18	8Z-ZM1-261-110		ROLLER ASSY,PINCH
19	8Z-ZM1-221-210		LEVER,PINCH
20	8Z-ZM1-205-310		LEVER,PLAY
21	8Z-ZM1-248-210		SPR-T,BRG
22	87-A90-403-110		HEAD,RPH MS15R
23	84-ZM2-227-310		SPR-C,AZIMUTH
24	8Z-ZM1-216-110		LEVER,AUTO
25	8Z-ZM1-246-110		SPR-T,AUTO 2
26	8Z-ZM2-214-110		GEAR,IDL REW ZZM-2
27	8Z-ZM2-212-010		LEVER,STOP ZZM-2
28	8Z-ZM1-207-010		LEVER,FF
29	8Z-ZM1-206-010		LEVER,REW
30	8Z-ZM1-210-010		LEVER,REC
31	87-A90-404-010		HEAD,EH LE15B
32	8Z-ZM2-218-010		LEVER,REC LOCK ZZM-2
33	87-A91-492-010		SW,LEAF MSW18560
34	8Z-ZM1-226-010		GEAR,REEL L
35	8Z-ZM1-241-210		SPR-T,PLAY
36	8Z-ZM1-220-110		LEVER,REC SENSOR
37	8Z-ZM1-249-210		SPR-T,FR
38	8Z-ZM1-242-310		SPR-T,FF/REW
39	8Z-ZM3-244-110		GEAR,CAM TD20
40	8Z-ZM1-232-010		GEAR,IDL FF/REW
41	8Z-ZM1-290-010		FLY-WHL ASSY,ZZM-1
42	8Z-ZM2-601-010		CONN ASSY,9P ZZM-2
43	8Z-ZM1-228-010		GEAR,SLIP T-UP B
44	8Z-ZM1-265-010		FELT,T-UP
45	8Z-ZM1-227-010		GEAR,SLIP T-UP A
46	8Z-ZM1-251-210		SPR-C,T-UP SLIP
47	8Z-ZM1-243-310		SPR-T,STOP/PAUSE
48	87-A91-532-010		MOT,MS15U2LW1A
49	8Z-ZM1-235-010		PULLEY,MOT
50	8Z-ZM2-216-010		BELT,MAIN M
51	8Z-ZM1-260-010		SPR-P,CASETTE
52	8Z-ZM2-201-510		CHAS ASSY,ZZM-2
53	8Z-ZM1-255-310		SPR-T,E-LOCK
54	8Z-ZM2-219-010		LEVER,E-OPEN ZZM-2
55	8Z-ZM1-214-310		LEVER,LOCK
56	8Z-ZM2-230-010		FLY-WHL ASSY,ZZM-2
57	8Z-ZM1-257-110		SPR-C,F/R
58	8Z-ZM1-275-010		W-L,1.47-4-0.25
59	87-B10-301-010		W-L,1.63-3.2-0.5 SLIT
60	87-A91-494-010		SW,LEAF MSW17820
61	8Z-ZM1-241-010		SPR-T,PLAY
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM2-220-110		V+2.6 ZZM-2

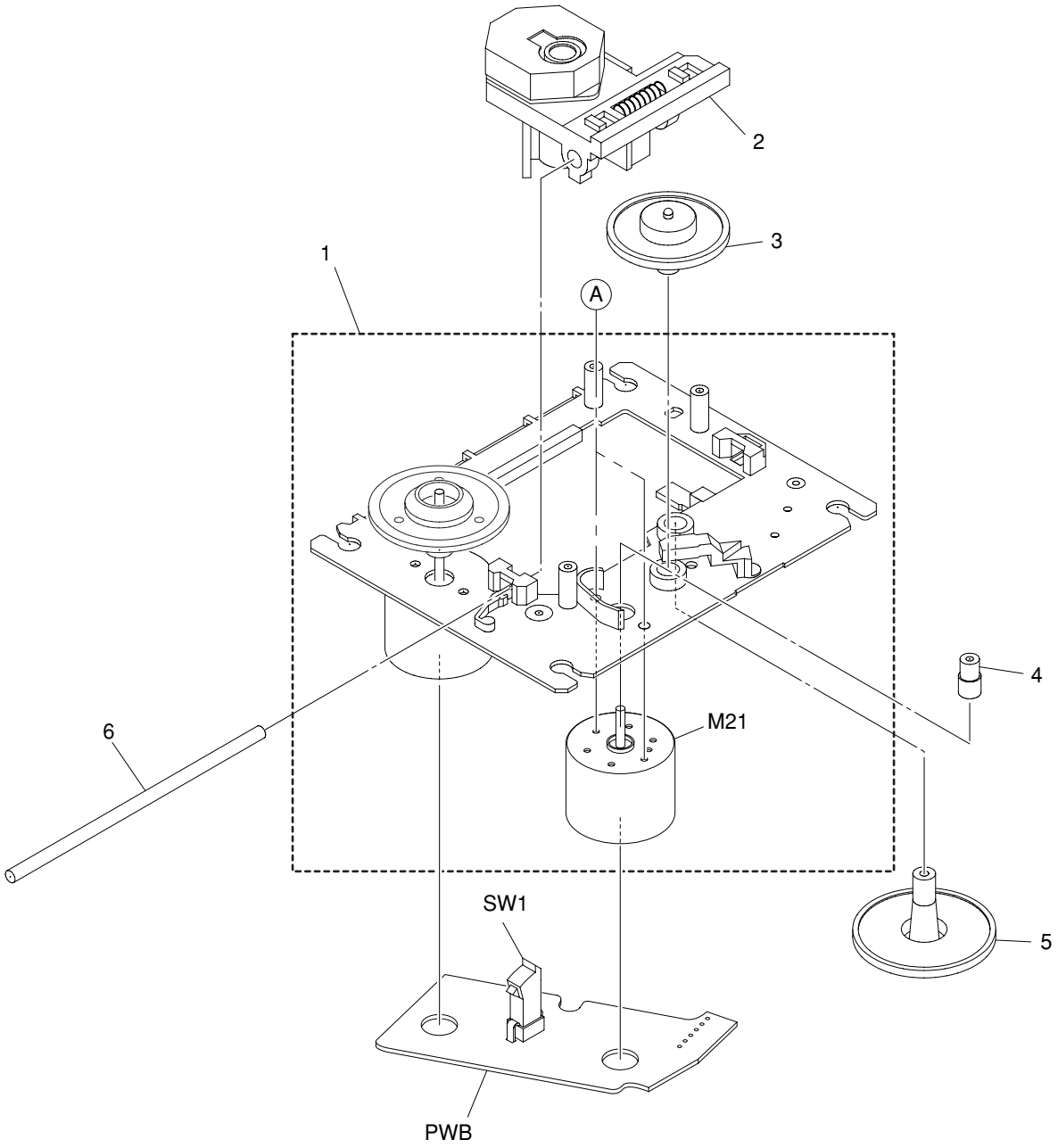
CD MECHANISM EXPLODED VIEW 1 / 2 (3ZG-3 E8NC)



CD MECHANISM PARTS LIST 1 / 2 (3ZG-3 E8NC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-224-519		HLDR M2
2	83-ZG3-228-619		CHAS,L6
3	83-ZG3-208-019		PULLEY,MOTOR
4	83-ZG3-213-019		LVR,SW
5	83-ZG3-209-619		CAM,SLIDE
6	83-ZG3-207-619		GEAR,TRAY
7	83-ZG3-204-21M		GEAR,C
8	83-ZG3-205-019		GEAR,D
9	83-ZG3-211-01K		PLATE,DISC
10	83-ZG3-220-21M		GEAR,PULLEY 2
11	83-ZG3-214-019		BELT,L
12	83-ZG3-229-51K		TRAY,CD 2
13	83-ZG3-210-119		HLDR,CHUCK
14	83-ZG3-604-010		RING,MAG 2
15	83-ZG3-212-019		CAP,DISC
A	87-067-945-119		VFT2+3-12(F10)
B	87-251-071-410		U+2.6-4
C	83-ZG3-235-010		VFT2+2.6-8
D	87-352-075-219		VT2+2.6-10
E	83-ZG3-217-019		S-SCREW,GEAR D
F	81-ZG1-254-019		S-SCREW,MECH HLDR

CD MECHANISM EXPLODED VIEW 2 / 2 (3ZG-2 E3NC)



CD MECHANISM PARTS LIST 2 / 2 (3ZG-2 E3NC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-262-010		CHAS ASSY,E3
2	87-A90-836-010		PICKUP,KSS-213F
3	83-ZG2-235-010		GEAR,A3
4	83-ZG2-236-010		GEAR,MOTOR 3
5	83-ZG2-205-310		GEAR,B
6	83-ZG2-253-010		SHAFT,SLIDE 5
A	87-261-032-210		V+2-3

SPEAKER PARTS LIST (SX-NVC8) <YHSC1NC1>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NSM-020-010		GRILLE, FRAME ASSY L
2	8A-NSM-008-010		CORD, SPKR
3	8A-NSM-606-010		SPKR, 100

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NHC-911-010		IB,H(EC-K)S
2	8A-NHC-701-010		RC UNIT,RC-AAS09
3	87-043-115-010		ANT,FEEDER FM
4	87-A90-030-010		ANT,LOOP AM-NC C

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